



CHICAGO AREA TIMEX USER GROUP  
1885-A YORKTOWN AVENUE  
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## EDITOR'S NOTES

The first week of this month provided one of the largest gatherings of Timexers that I've ever experienced. The Computer Fest was a huge success. Those of us who attended were able to enjoy seminars, demonstrations and special dealer bargains. The best part was being able to share our experiences with other Timex/Sinclair enthusiasts. Although I know that there have been no announcements yet, I can't shake the feeling that there'll be another fest next year and I encourage everybody to attend it. It is a very special event for us all.

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Articles that appear in this issue are:

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## CHICAGO AREA FIDO NETWORK By Gary Lessenberry

We Chicago area telecommuters have been stung by the recent changes in billing from Illinois Bell. With Timexers spread all throughout the Chicagoland area, it is difficult to find an economical means to keep in touch in a timely manner.

Fortunately for us, there is FIDO. It is a network of bulletin boards that link together on a nightly basis to exchange messages. FIDO mail may be free or the system may require a nominal fee to cover their operating costs. To send FIDO mail, all you need to do is become a validated member of a FIDO system. At the end of this article, I have a list of all the systems in the Chicago area that support FIDO mail. In the Timex Info area of the Nite Owl Special BBS (312) 473-9415, you will find an online file that lists Timex/Sinclair users and their FIDO net/node address. If you would like to add your name and net/node to the list, either leave feedback on the Timex Zone Sub-board of the Nite Owl Special, or write to my Fido mail address 115/969.

## CHICAGO AREA FIDO NETS/NODES

NET/NODE	BULLETIN BOARD SYSTEM	TEL #
115/100	Illini Data (Bolingbrook) .....	759-5402
115/108	Samson 108 (Schaumburg) .....	991-8304
115/123	DEC PCLug (Chicago) .....	490-9206
115/212	Beaker's Beacon 212 (Chicago) .....	589-2827
115/256	Byls Fido (Chicago) .....	262-8959
115/333	Solar Wind (Homewood) .....	
115/396	AIS-Chicago 396 (Chicago) .....	338-8827
115/419	Northwestern Micro (Evanston) .....	491-3892
115/429	Job Search Fido (Chicago) .....	274-9112
115/478	North Parks TBBS (Chicago) .....	478-3903
115/500	Sit-Ubu-Sit 500 (Lombard) .....	960-5928
115/512	Sports Fido 512 (Palos Heights) ....	598-0525
115/640	Computer Guild (Elk Grove Village) ..	640-7980
115/700	COPH Mail (Chicago) .....	
115/729	Spectrum MACNet (Northbrook) .....	729-8768
115/777	Cope BBS (Glen Ellyn) .....	790-0187
115/778	COPH-2 (Chicago) .....	286-0608
115/969	Great Lakes Fido 969 (Waukegan) ....	689 8869
115/999	N.A.B.B.S.O. (Glenview) .....	729-0012

## BUILD A SPECTRUM ROMSWITCHING CIRCUIT FOR YOUR TS-2068

By Gary Lessenberry

I recently purchased some Spectrum ROMs from Zebra Systems with the hope that I might be able to make my own Spectrum romswitching circuit without paying the high price of those circuits that are commercially available. When I examined the TS-2068's ROM circuitry, I realized that this was an easier task than I had originally assumed! All that I needed was: a Spectrum ROM, an SPDT toggle switch (Radio Shack #275-6725), two feet of insulated wire and two 10K ohm resistors (Radio Shack #271-133)

To start the project, you first remove the top from your computer case by removing the seven screws in the bottom of

the case. When you look inside, it will appear as in figure 1. You now remove the Timex ROM (U16). To remove it, gently pry it with a small screwdriver or knife inserted between the socket and the ROM.

It is important that you test your Spectrum ROM before constructing this circuit. To test it, place it in the socket from which you have removed the TS-2068 ROM and energize your computer. The Sinclair copyright should be displayed. If not, your ROM may be defective. After the test, remove the Spectrum ROM.

Take your Timex ROM and place your Spectrum ROM directly over it with the notches in the same direction (see figure 3). There should only be a thin space between the two ROMs and all of their leads should be touching. Do not leave a lot of space between these ROMs because clearance is critical when you reassemble your computer! You will now, very gently, bend pin 20 on both ROMs upward until they are perpendicular to the other pins. You may now solder all of the pins except pin 20. Be careful when soldering. Allow 30 seconds between the soldering of each pin so that you won't overheat and damage the ROMs. To pin 20 of each ROM, you will solder a piece of wire and one end of a 10K ohm resistor. The other end of each 10K ohm resistor will be soldered to pin 28 (+5vdc). The other end of the two wires that you have coming from pin 20 of the two ROMs will be soldered to the toggle switch. The toggle switch has three pins on it. Two of these pins are labeled "ON". Solder one wire to each of these two pins. Another wire will be soldered to the middle pin of the the toggle switch with the other end of that wire going to the circuit board and soldered to W1.

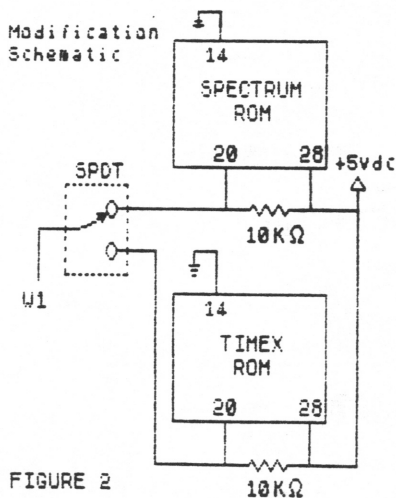
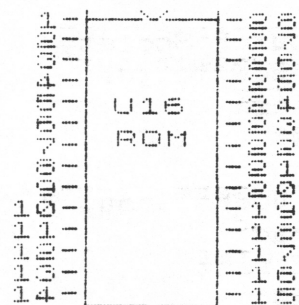


FIGURE 2



ROM Pin Assignments

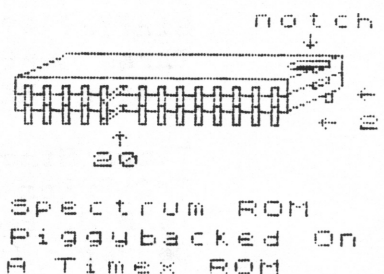


FIGURE 3

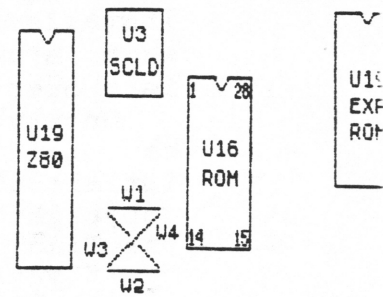


FIGURE 1



At this point, you may reinstall your ROMs into their socket. A hole must be drilled in the rear of your case for mounting your toggle switch. After the toggle switch has been installed, you may replace the top of your computer. Be careful when reinstalling the top of the computer to ensure that there is proper clearance and nothing is being forced!

Once your computer is reassembled, you may test it out. You can tell which ROM is selected by the printout after initialization. When in the Spectrum mode, the Sinclair copyright will be displayed. When the TS-2068 mode is selected, the Timex and Sinclair copyrights will both be displayed.

If you have any problems or questions, you may call me at (312) 473-9415 or leave me a note at the Nite Owl Special BBS (312) 459-5721.

#### TIMEX SINCLAIR PUBS UPDATE

By Gary Lessenberry

We have been fortunate enough to discover a few more Timex/Sinclair newsletters that are in production.

SMUG Bytes  
Sinclair Milwaukee Users Group  
P.O.Box 101  
Butler, WI 53007

WCUC User Amuser (Timex/Sinclair Column)  
Westmoreland Computer Users Club  
P.O.Box 3051  
Greensburg, PA 15601

Detroit Area Timex Sinclair News  
C/O Barry Carter  
Box 614  
Warren, MI 48090

The Boston Computer Society  
Sinclair-Timex Newsletter  
Three Center Plaza  
Boston, MA 02108

Timex Sinclair Users Group Mile High Chapter Newsletter  
C/O Frank Holland  
1423 S. Pearl Street  
Denver, CO 80210

#### Telecomm Guide Premiers At Computer Fest By Gary Lessenberry

The deluxe edition of The Guide To T/S Telecommunications was unveiled by Pete Fischer at the Midwest Timex/Sinclair Computer Fest. Mere words cannot describe the enthusiasm that



I have for this manual. On the cover is a printout of a Timex RLE that had been telecommuted around the country several times over with various groups and individuals adding their own personal touches. Inside there are 100 full size (8x11 inch) pages of the best telecomm info to be found anywhere. Topics include information about all the current systems that have TS boards, how to download and upload, product reviews of all the TS telecomm hardware and software, how to start your own BBS, international telecomm, program and hardware modifications, and much more! This may be the most important manual that I have for my computer and I highly recommend it for of my fellow telecommuters. Copies are available for \$7.50 from Pete Fischer, P.O.Box 2002, Tempe, AZ 85281

## RE-INKING THE BANANA

By Ed Grey

When confronted with the ridiculously high prices and lack of availability for ribbons for my Gorilla Banana printer, I decided to do a little investigation of ways to save those dollars. Even though DAK had (still has to my knowledge) the ribbons for \$4.00 each and other sources (such as Radio Shack) were asking up to \$9.95, I felt that there must be a cheaper way to get an inky ribbon for my printer. Let's face it, I already had everything but ink on my ribbon, so that is where I started.

Someone had told me about a way to put ink on a Q-tip and apply it to the ribbon as it passed through the machine. I tried it and made a mess. The ink got on the ribbon alright (and everything else too). Then I said to myself, "Self, the ribbon in the Banana is only 24 inches long and how much ink can you put on a 24" ribbon?". So I set out to find out about the Banana printer ribbon inking system. The following is my discovery.

I took the ribbon out of my Banana and set it on a table in front of me the way it comes out of the printer. Facing the front of the printer, I lifted the cassettes and ribbon out and set them on the table with the left cassette on the left and the ribbon extended between the 2 cassettes. The catches on the cassettes are resting on the table. Now with your ribbon laying in front of you like that, the cassette on your right has a spring and plastic pressure plate that keeps the ribbon taut when in use. It is the other cassette (on your left) that has the goodies that we are interested in. As you can see, the ribbon goes into the cassette through a slit in the front and it exits through a slit in the back. Inside this cassette there is a round felt-like ink reservoir and a starwheel which contacts the felt (picks up ink) and then contacts the ribbon (and deposits the ink). Both the starwheel and the felt wheel just sit on plastic posts, they can fall out if you are not careful. The ribbon enters from the back slit, is guided to the rear (away from the felt wheel) of the starwheel and then exits through the slit in front. A very simple mechanism indeed and

easy to re-ink, providing you can gain access without damaging the cassette.

Now with the ribbon laid out as described earlier, you want to open the cassette on the left. I used a very small blade type pocket screwdriver, but anything straight and narrow that has a flat tip should work. The top of the cassette is on the top (the way it is situated on the table). Insert the blade of the screwdriver between the top and base of the cassette (entering from the right, between the ribbons as laid out. Utmost care must be taken not to poke yourself in the hand with the screwdriver (or other object). Once the tip of the blade is inserted, wiggle it back and forth until the cassette begins to open. You may have to move from front to back to open both sides. Gently push the screwdriver through the opening until the far side of the cassette is open. Now lift off the top and there are the parts as described earlier. It is really a very simple procedure, but difficult to explain without diagrams.

If you have gotten this far, the worst is over. Considering the price of printer ribbon ink, and not being a chemist to distinguish the difference, I decided to try stamp pad ink which I already had on hand. It is available from any stationary store at a nominal price. It works fine. I just put 3 or 4 drops on the felt reservoir and spread it around until uniform in appearance. That's all there is to it. Care should be taken when closing the cassette to make sure that the ribbon is following the correct path (as described) through the cassette and that the ribbon is not binding at the entrance or exit to the cassette. If either the starwheel or felt wheel should come off, just replace on the post. Place the 2 guide rods on the top into the 2 holes provided in the base and gently press the two together until they snap shut. Check to make sure that the ribbon moves freely through the cassette, if it does, you're done! If it doesn't, pry open the cassette again and free the bind.

I have been using this method for about 6 months now, without any ill effects to the printer or ribbons. I can now do the procedure without getting my fingers inky (practice make perfect). Just for the record, I use Carter's black stamp pad ink and the rather old price tag says \$ .52 (for a 2 oz bottle). Let me see, I could ink a lot of ribbons with what is left in this bottle. At \$2.00 a re-inking and 4 drops per ribbon.....Hmmm, forget this article and just send your dry Banana ribbons (along with \$2.00) to.....

## My Report Of The T/S FEST '87

By Ed Grey

My wife Heddy and I arrived in Indianapolis at 5:30PM local time on Friday May 1st after an uneventful USAir flight from Los Angeles. The Holiday Inn North's airport bus arrived in about 25 minutes to take us to the hotel. The accommodations seemed to be very nice. The pre-festival banquet began at 8:00PM and was a good indication of things to come.

There were over 100 persons present at the banquet many of whom had traveled (from as far away as London) some distance to be there. After a few short statements by the organizers of the FEST, the assembled Timexers introduced themselves one by one. It was here that I began to feel the excitement and energy that was to be part of this weekend. For the first time I could begin to put faces on people who up until now had been only names and voices. Many of the familiar names of the T/S community were there, in person. Representatives of the User Groups from across the country were there also. Needless to say, all of the major Timex/Sinclair Dealers were also present. The Holiday Inn staff did an excellent job with the buffet. The food was VERY good, my compliments to the chef.

After the dinner many of the dealers, myself included, began to set up our tables for the following morning. Saturday started at 6:30AM, then down to the cafeteria for breakfast and then to the meeting room to continue preparations at 7:30. There were 5 rooms and a comfortable waiting/resting area set aside for the 1987 edition of the T/S FEST. Two rooms for the dealers to display their products, two rooms for concurrent seminars and 1 room for the "swap meet" where T/S users could swap or sell their own excess equipment.

The doors were opened at 9:00AM, the scheduled hours were 9-6 on Saturday and 9-5 on Sunday. The aisles filled immediately with Timex and Sinclair computer users. Approximately 450-500 Timex users from all corners of the U.S. filed past the 40-50 displays during the 2 days of the FEST. The names on the ID tags read like a who's who of Timex world. John Oliger, David Hill, Tom and Tim Woods, Pete Fischer, Sysops Dave and Patrick (of CompuServe), Tom Bent all were in attendance. There were door prizes galore, several every hour. Grey and Clifford COMPUTER PRODUCTS' own drawing winners were Don Waltermann (MI) and John Kemeny (MA) who both won Z-SI/O cards. John Coffey (IN) and "Computin in the Country" author Oscar Sensabaugh (TX) were the winners of the SPECTERM-64 terminal software. Congratulations to them all.

Frank Davis (FEST Producer) and Paul Holmgren (FEST Executive Director) were masterful in putting the the 1987 Midwest Timex/Sinclair Computer Fest together. What a job it must be. The members of the Indiana Sinclair Timex User Group (I.S.T.U.G.) were ever present and always helpful. Many thanks to all of them that worked to make the T/S FEST '87, the success that it was.

Some of the deals and contacts made at the FEST will surely influence the directions that T/S computer products will take



in the future. As long as our computers can generate the enthusiasm that was evident in Indianapolis, there will continue to be new software and hardware for our T/S1000 (ZX81, T/S1500), T/S2068 and QL's. I don't know where the FEST will be next year, but I will certainly try to be there. I will never feel isolated with my T/S2068 again. See you next year at T/S FEST '88.

PRINT OR LPRINT  
By James F. Brezina

Each new book I have bought on the TS 2068 has taught me quite a bit about programming on the computer. The things I have learned lately on the keyword PRINT are quite interesting. The latest book I purchased, "Introduction to 2068 Machine Language" by Dr. Lloyd Dreger, explained quite a bit about it.

Many times I have entered programs with the command "PRINT#0;" or the command "PRINT #1;". I found that the command would cause whatever followed it (a string or numbers) to be printed to the bottom two lines on the screen. However, in order for that information to remain on the screen, one has to provide some means to prevent an error statement or INPUT from appearing there. That can be done by a PAUSE or by following it with along FOR - NEXT loop. All the PRINT # commands are to be followed by a semi-colon.

Dr. Dreger's book informs me that "PRINT #2;" will print to the upper screen which is the same thing that PRINT also does. The next PRINT command "PRINT #3;" will send the printing to the printer. This will be either the 2040 printer or a full size printer as long as you have the printer driver loaded and initialized.

Is there a PRINT #4;? Yes, I have found it used by the "ZTALKER". It is the means by which words are entered to make the "ZTALKER" talk. However, some words do not sound right if spelled normally, so you might have to misspell them to get the "ZTALKER" to sound right.

I have not seen anything about using anything above #4 in these PRINT statements in the above manner. I have seen the mused in another manner which I will explain later on.

An interesting thing about this PRINT #3 setup is that, you can also enter LIST #3 and it will LIST on the printer. Another thing you can do is with the LPRINT and LLIST commands. LPRINT#2 and LLIST #2 will go to the screen instead of the printer.

A number of years ago, I saw an article on one of the uses of the OPEN # command. This was originally intended for use with disks, however, it can also be used for printing without a disk system. The manner in which it was used was to enter "OPEN #2". The 2068 will not let you enter "OPEN #2" alone but it will let you enter "CLOSE #2" by itself. To enter "OPEN #2" you must follow it with a comma (the comma is the only punctuation mark that works) and one of the following letters in quotation marks:

"S" for the upper part of the screen.

"K" for the lower part of the screen (with something like PAUSE to keep the print on the screen)

"P" for printing to the printer (any kind as in "PRINT #3" This will cause anything in a PRINT statement to go to where the letter indicates. The most usefull way of entering this commandis, "OPEN #2,"P". After entering this command (whether immediate mode or in a program, everything in the program that is in a PRINT statement will go to the printer. The simplest way of redirecting the print to the screen is to enter "CLOSE #2". I have seen one article that said to enter "OPEN #2,"S", but, that to me is a waste of keystrokes and it still leaves the channel open.

I have found that the only channel that works that way is channel 2. You can use any one of the other 15 channels to send print statements to the printer, but, you must follow them with the command: "PRINT #(channel you are using);" followed by what you want printed. An example of this is as follows:

```
10 OPEN #5,"P"
20 PRINT #5;"Mary had a little lamb"
30 CLOSE #5
```

A while back I found a little program (I believe it was in TS HORIZONS) that works like a simple word processor. The original program was written as follows:

```
10 INPUT AT 21,0; AT 0,0; LINE A$
20 LPRINT A$
30 GO TO 10
```

What happens with this program when you run it, is a cursor appears on the top of the screen. As you enter letters they are printed to the top of the screen and the cursor moves ahead of the letters. The entered string does not have quotation marks. Almost everything works as normal except the down arrow. It is the BREAK key for this program. You can even use the CAPS LOCK for this program. You can enter GRAPHICS. When you key the ENTER key, what is on the screen is printed on the printer. The screen would then be erased. Of course, a full sized printer will not print the GRAPHICS. You can also use the ENTER key for a LINEFEED. For a full sized printer, you will have to have your printer driver loaded in and initialized.

I tried an alteration on the program by changing the 0,0 in line 10 to 1,0. Then I added a line 5 to print the numbers 1 through 0 all the way across the screen. I found that this line would remain on the screen at all times while the rest of the text would be erased with ENTER to print to the printer. I also found that corrections could be made to the text. I also tried putting a semi-colon after LPRINT A\$. This had a drawback as one had to add spaces to fill the printers buffer or the entire text would not be printed out.

In the September issue of Time Designs Magazine, one writer asked if there was a way to get the 2068 to print direct to the printer without using a monitor. Tim Woods answered that he knew of no way of doing this. The next issue contained quite a few letters in answer to that question, but, none of them really gave an answer to do what the writer wanted. One of the

answers gave me the following idea, but it still does not do what the writer wanted.

```
5 POKE 23692,2
10 LET A$ = INKEY$: PRINT A$;: LPRINT A$;
15 PAUSE 20
20 GO TO 5
```

The POKE 23692,2 makes the text on the screen scroll up when the screen fills instead of breaking out. The semi-colons after the A\$ keeps the printing on one line, otherwise, there would only be one letter to a line. The PAUSE is necessary, as without it you would not be able to get your finger off a key fast enough so it wouldn't repeat. What happens is that the printer will print out a line of text when the printer's buffer is full or when you key ENTER. This program has a number of disadvantages. There is no cursor on the screen. You cannot delete screen letters with the Ø key. You can move the unseen cursor with the arrow keys and correct words on the screen, but, you cannot change what is in the printer's buffer. The result is that your mistakes are still printed on the printer. You can still break out of the program with the CAPS SHIFT & BREAK keys. CAPS LOCK cannot be used.

I tried a number of ways to make a cursor appear in the text on this program. I had no luck. Maybe one of you might find a way.

#### JUNE C.A.T.U.G. MEETING

The June meeting of the Chicago Area Timex User Group will be on Saturday, June 27th at 12:00 noon. This meeting will be at the residence of John Ulreich, 203 Nauvoo, Park Forrest. If you have any problems with the following directions, you may call John at 748-6004 for more help.

DIRECTIONS: If you come down I-294, go south past the 167th Street Toll Plaza and exit south on Dixie Highway. Turn right (west) on 175th Street. Proceed west to Governor's Highway where you will turn left and drive south untill you reach Sauk Trail. Turn left (east) and drive to Indianwood. Turn right and go south until you reach Nauvoo. Turn right on Nauvoo and you will find John's house on the left, midway down the block.

#### BACK-UP QL COMPUTERS OFFERED

By Gary Lessenberry

During a recent conversation with a representative of A+ Computer Response, I was imformed that for anybody who has bought a QL from them or any of their distributors, there are back-up units available for \$99.00! These back-up units come without power supply, software or manual. They are only the main computer portion of the QL.



CHICAGO AREA TIMEX USERS GROUP  
(MAY 1, 1986)

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BILL BROOKS, 274 CLINTON AVE., ELMHURST, IL 60126, (312) 832-9272L  
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**C.A.T.U.G.**

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